

INFORMATION DISCLOSURE
CITATION

(Use several sheets if necessary)

Atty. Docket No.

Serial No.

1579-804

Applicant

HAYNES et al

Filing Date

Group

September 17, 2003

1648

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

	Furuta et al, "Capture of an early fusion-active conformation of HIV-1 gp41", Nature Struct. Biol. 5:276 (1998)
	LaCasse et al, "Fusion-Competent Vaccines" Broad Neutralization of Primary Isolates of HIV", Science 283:357 (1997)
	Boots et al, "Anti-Human Immunodeficiency Virus Type 1 Human Monoclonal Antibodies that Bind Discontinuous Epitopes in the Viral Glycoproteins Can Identify Mimotopes from Recombinant Phage Peptide Display Libraries", AIDS Research and Human Retroviruses 13(18):1549-1559 (1997)
	Bieniasz et al, "HIV-1-induced cell fusion is mediated by multiple regions within both the viral envelope and the CCR-5 co-receptor", The EMBO Journal 16(10):2599-2609 (1997)
	Wild et al, "Propensity for a leucine zipper-like domain of human immunodeficiency virus type 1 gp41 to form oligomers correlates with a role in virus-induced fusion rather than assembly of the glycoprotein complex", Proc. Natl. Acad. Sci. USA 91:12676-12680 (1994)
	Collman et al, "An Infectious Molecular Clone of an Unusual Macrophage-Tropic and Highly Cytopathic Strain of Human Immunodeficiency Virus Type 1", Journal of Virology 66(12):7517-7521 (1992)
	Alam et al, "T-cell-receptor affinity and thymocyte positive selection", Letters to Nature 381:616-620 (1996)
	O'Shannessy et al, "Immobilization Chemistries Suitable for Use in the BIAcore Surface Plasmon Resonance Detector", Analytical Biochemistry 205:132-136 (1992)
	Mascola et al, "Immunization with Envelope Subunit Vaccine Products Elicits Neutralizing Antibodies against Laboratory-Adapted but Not Primary Isolates of Human Immunodeficiency Virus Type 1", J. Infect. Dis. 173:340-348 (1996)
	Rizzuto et al, "A Conserved HIV gp120 Glycoprotein Structure Involved in Chemokine Receptor Binding", Science 280:1949-1953 (1998)

*Examiner

Date Considered

7/22/05

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

INFORMATION DISCLOSURE CITATION

ATTY. DOCKET NO.

SERIAL NO.

1579-804

10/664,029

APPLICANT

HAYNES et al

(Use several sheets if necessary)

FILING DATE

GROUP

September 17, 2003

1648

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
J	5,019,387	5/1991	Haynes et al	1	1	
J	5,013,548	5/1991	Haynes et al	1	1	
J	5,352,576	10/1994	Haynes et al	1	1	
J	5,993,819	11/1999	Haynes et al	1	1	
J	5,516,632	5/1996	Palker et al	1	1	
	/					

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS							ABSTRACT	
DOCUMENT			DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
JP		WO 95/29700	11/1995	PCT				
		WO 97/14436	4/1997	PCT				
		WO 93/15750	8/1993	PCT				
		WO 02/024149	3/2002	PCT				
		WO 01/56355	8/2001	PCT				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

[illegible]

*Examiner

Date Considered

7/22/05

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1448)

**INFORMATION DISCLOSURE
CITATION**

ATTY. DOCKET NO.

SERIAL NO.

1579-804

10/664,029

APPLICANT

HAYNES et al

(Use several sheets if necessary)

FILING DATE

GROUP

September 17, 2003

1648

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

<input checked="" type="checkbox"/>	Trkola et al, "Human Monoclonal Antibody 2G12 Defines a Distinctive Neutralization Epitope on the gp120 Glycoprotein of Human Immunodeficiency Virus Type 1", Journal of Virology 70(2):1100-1108 (1996)
<input checked="" type="checkbox"/>	Mo et al, "Human Immunodeficiency Virus Type 1 Mutants That Escape Neutralization by Human Monoclonal Antibody IgG1b12", Journal of Virology 71(9):6869-6874 (1997)
<input checked="" type="checkbox"/>	Ye et al, "Association of Structural Changes in the V2 and V3 Loops of the gp120 Envelope Glycoprotein with Acquisition of Neutralization Resistance in a Simian-Human Immunodeficiency Virus Passaged In Vivo", Journal of Virology 74(24):11955-11962 (2000)
<input checked="" type="checkbox"/>	Fouts et al, "Neutralization of the Human Immunodeficiency Virus Type 1 Primary Isolate JR-FL by Human Monoclonal Antibodies Correlates with Antibody Binding to the Oligomeric Form of the Envelope Glycoprotein Complex", Journal of Virology 71(4):2779-2785 (1997)
<input checked="" type="checkbox"/>	Sullivan et al, "CD4-Induced Conformational Changes in the Human Immunodeficiency Virus Type 1 gp120 Glycoprotein: Consequences for Virus Entry and Neutralization", Journal of Virology 72(6):4694-4703 (1998)
<input checked="" type="checkbox"/>	Moore et al, "Exploration of antigenic variation in gp120 from clades A through F of human immunodeficiency virus type 1 by using monoclonal antibodies", Journal of Virology 68(12):8350-8364 (1994) – Abstract
<input checked="" type="checkbox"/>	Jiang et al, "A Conformation-Specific Monoclonal Antibody Reacting with Fusion-Active gp41 from the Human Immunodeficiency Virus Type 1 Envelope Glycoprotein", Journal of Virology 72(12):10213-10217 (1998)
<input checked="" type="checkbox"/>	Rimsky et al, "Determinants of Human Immunodeficiency Virus Type 1 Resistance to gp41-Derived Inhibitory Peptides", Journal of Virology 72(2):986-993 (1998)
<input checked="" type="checkbox"/>	Earl et al, "Immunogenicity and Protective Efficacy of Oligomeric Human Immunodeficiency Virus Type 1 gp140", Journal of Virology 75(2):645-653 (2001)
<input checked="" type="checkbox"/>	Muster et al, "A conserved neutralizing epitope on gp41 of human immunodeficiency virus type 1", Journal of Virology 67(11):6642-6647 (1993) – Abstract
<input checked="" type="checkbox"/>	Cormier et al, "Specific interaction of CCR5 amino-terminal domain peptides containing sulfotyrosines with HIV-1 envelope glycoprotein gp120", PNAS 97(11):5762-5767 (2000)
<input checked="" type="checkbox"/>	Hoffman et al, "A biosensor assay for studying ligand-membrane receptor interactions: Binding of antibodies and HIV-1 Env to chemokine receptors", PNAS 97(21):11215-11220 (2000)
<input checked="" type="checkbox"/>	Myszka et al, "Energetics of the HIV gp120-CD4 binding reaction", PNAS 97(16):9026-9031 (2000)
<input checked="" type="checkbox"/>	Roben et al, "Recognition properties of a panel of human recombinant Fab fragments to the CD4 binding site of gp120 that show differing abilities to neutralize human immunodeficiency virus type 1", Journal of Virology 68(8):4821-4828 (1994) – Abstract
<input checked="" type="checkbox"/>	Muster et al, "Cross-neutralizing activity against divergent human immunodeficiency virus type 1 isolates induced by the gp41 sequence ELDKWS", Journal of Virology 68(6):4031-4034 (1994) – Abstract
<input checked="" type="checkbox"/>	Earl et al, "Native oligomeric human immunodeficiency virus type 1 envelope glycoprotein elicits diverse monoclonal antibody reactivities", Journal of Virology 68(5):3015-3026 (1994) – Abstract

*Examiner

Date Considered

7/22/05

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Affy. Docket No.

Serial No.

1579-804

10/664,029

Applicant

HAYNES et al

Filing Date

Group

September 17, 2003

1648

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

[illegible]

***Examiner**

Date Considered

7/22/05

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

**INFORMATION DISCLOSURE
CITATION**

ATTY. DOCKET NO.

1579-804

SERIAL NO.

10/664,029

APPLICANT

HAYNES et al

(Use several sheets if necessary)

FILING DATE

September 17, 2003

GROUP

1648

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

<input checked="" type="checkbox"/>	Fouts et al, "Crosslinked HIV-1 envelope-CD4 receptor complexes elicit broadly cross-reactive neutralizing antibodies in rhesus macaques", PNAS 99(18):11842-11847 (2002)
<input checked="" type="checkbox"/>	Fouts et al, "Expression and Characterization of a Single-Chain Polypeptide Analogue of the Human Immunodeficiency Virus Type 1 gp120-CD4 Receptor Complex", Journal of Virology 74(24):11427-11436 (2000)
<input checked="" type="checkbox"/>	Devico et al, "Monoclonal Antibodies Raised against Covalently Crosslinked Complexes of Human Immunodeficiency Virus Type 1 gp120 and CD4 Receptor Identify a Novel Complex-Dependent Epitope on gp120", Virology 211:583-588 (1995)
<input checked="" type="checkbox"/>	Devico et al, "Covalently Crosslinked Complexes of Human Immunodeficiency Virus Type 1 (HIV-1 gp120 and CD4 Receptor Elicit a Neutralizing Immune Response That Includes Antibodies Selective for Primary Virus Isolates", Virology 218:258-263 (1996)
<input checked="" type="checkbox"/>	Vita et al, "Rational engineering of a miniprotein that reproduces the core of the CD4 site interacting with HIV-1 envelope glycoprotein", PNAS 96(23):13091-13096 (1999)

*Examiner

Date Considered

9/22/05

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

**INFORMATION DISCLOSURE
CITATION**

ATTY. DOCKET NO.

SERIAL NO.

1579-804

10/664,029

APPLICANT

HAYNES et al

(Use several sheets if necessary)

FILING DATE

GROUP

September 17, 2003

1648

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		WO 94/15638	7/1994	WIPO	—	—		
		WO 00/08043	2/2000	WIPO	—	—		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

	Devico et al, "Covalently Crosslinked Complexes of Human Immunodeficiency Virus Type 1 (HIV-1) gp120 and CD4 Receptor Elicit a Neutralizing Immune Response That Includes Antibodies Selective for Primary Virus Isolates", Virology 218:258-263 (1996)
	Zhang et al, "Antibody 17b Binding at the Coreceptor Site Weakens the Kinetics of the Interaction of Envelope Glycoprotein gp120 with CD4", Biochemistry 40:1662-1670 (2001)
	Rimsky et al, "Determinants of Human Immunodeficiency Virus Type 1 Resistance of gp41-Derived Inhibitory Peptides", Journal of Virology 72(2):986-993 (1998)
	Zhang et al, "Conformational Changes of gp120 in Epitopes near the CCR5 Binding Site Are Induced by CD4 and a CD4 Miniprotein Mimetic", Biochemistry 38:9405-9416 (1999)
	Liao et al, "Immunogenicity of Constrained Monoclonal Antibody A32-Human Immunodeficiency Virus (HIV) Env gp120 Complexes Compared to That of Recombinant HIV Type 1 gp120 Envelope Glycoproteins", Journal of Virology 78(10):5270-5278 (2004)
	Boots et al, "Anti-Human Immunodeficiency Virus Type 1 Human Monoclonal Antibodies that Bind Discontinuous Epitopes in the Viral Glycoproteins Can Identify Mimotopes from Recombinant Phage Peptide Display Libraries", AIDS Research and Human Retroviruses 13(18):1549-1559 (1997)

*Examiner

Date Considered

7/23/05

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

